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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4330002	APPLICATION NO. 09/064,057
APPLICANT GERARD <i>et al.</i>		
FILING DATE April 22, 1998		GROUP 1634 1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2						
	AB2						
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<i>r.r.</i>	AE2	5,322,770	06/21/1994	Gelfand, D.H.	435	6	12/22/1989
<i>r.r.</i>	AF2	5,407,800	04/18/1995	Gelfand <i>et al.</i>	435	6	06/17/1993
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AL						Yes
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	AM						Yes
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	AN						Yes
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	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>r.r.</i>	AR	18	Dudding, L.R., <i>et al.</i> , "Analysis of the RNA- and DNA-Dependent DNA Polymerase Activities of Point Mutants of HIV-1 Reverse Transcriptase Lacking Ribonuclease H Activity," <i>Biochemistry</i> 30:10498-10506 (1991).
<i>r.r.</i>	AS	18	Hizi, A., <i>et al.</i> , "Mutational Analysis of the Ribonuclease H Activity of Human Immunodeficiency Virus 1 Reverse Transcriptase," <i>Virology</i> 175:575-580 (1990).
<i>r.r.</i>	AT	18	Johnson, M.S., <i>et al.</i> , "Computer analysis of retroviral <i>pol</i> genes: Assignment of enzymatic functions to specific sequences and homologies with nonviral enzymes," <i>Proc. Natl. Acad. Sci. USA</i> 83:7648-7652 (October 1986).

EXAMINER <i>r. r. Ponchikova</i>	DATE CONSIDERED 4/20/99
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r.e.r.	AR	19	Kanaya, S., <i>et al.</i> , "Identification of the Amino Acid Residues Involved in an Active Site of <i>Escherichia coli</i> Ribonuclease H by Site-directed Mutagenesis," <i>J. Biol. Chem.</i> 265:4615-4621 (March 1990).
r.e.r.	AS	19	Mizrahi, V., <i>et al.</i> , "Site-directed mutagenesis of the conserved Asp-443 and Asp-498 carboxy-terminal residues of HIV-1 reverse transcriptase," <i>Nucl. Acids Res.</i> 18:5359-5363 (September 1990).
r.e.r.	AT	19	Repaske, R., <i>et al.</i> , "Inhibition of RNase H Activity and Viral Replication by Single Mutations in the 3' Region of Moloney Murine Leukemia Virus Reverse Transcriptase," <i>J. Virol.</i> 63:1460-1464 (March 1989).

EXAMINER

N. Reed

DATE CONSIDERED

3/19/03

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GERARD *et al.*

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<i>r.e.</i>	AR	<u>20</u>	Telesnitsky, A., and Goff, S.P., "RNase H domain mutations affect the interaction between Moloney murine leukemia virus reverse transcriptase and its primer-template," <i>Proc. Natl. Acad. Sci. USA</i> 90:1276-1280 (February 1993).
	AS		
	AT		

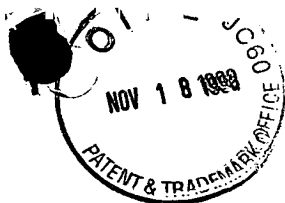
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r.e.	AR	17	Boehringer Mannheim Biochemicals, "Reverse Transcriptase AMV," "Reverse Transcriptase M-MuLV," Reverse Transcriptase, HIV-1," Products Catalogue, pp. 92-93 (1995).
r.e.	AS	17	Life Technologies, Inc., "GIBCO BRL Baculovirus Expression Products," Product Technical Literature (1996).
r.e.	AT	17	Toyobo, Tokyo, Japan, "M-MLV Reverse Transcriptase (RNase H-) ReverTraAce," Product Literature (1998).

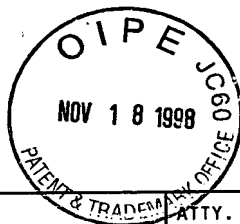
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R. R. Foster

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r.r.	AA1	4,663,290	05/05/1987	Weis et al.	435	253	01/21/1982
r.r.	AB1	4,889,818	12/26/1989	Gelfand et al.	435	194	06/17/1987
r.r.	AC1	4,965,188	10/23/1990	Mullis et al.	435	6	06/17/1987
r.r.	AD1	5,244,797	09/14/1993	Kotewicz et al.	435	194	03/18/1991
r.r.	AE1	5,310,652	05/10/1994	Gelfand et al.	435	6	06/24/1993
r.r.	AF1	5,374,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990
r.r.	AG1	5,405,776	04/11/1995	Kotewicz et al.	435	252.33	01/24/1992
r.r.	AH1	5,436,149	07/25/1995	Barnes, W.M.	435	194	02/19/1993
r.r.	AI1	5,512,462	04/30/1996	Cheng, S.	435	91.2	02/25/1994
r.r.	AJ1	5,556,771	09/17/1996	Shen et al.	435	91.2	02/10/1995
r.r.	AK1	5,618,702	04/08/1997	Scanlon, K.J.	435	91.2	08/06/1993

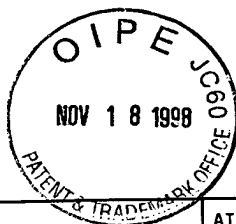
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
r.r.	AL1	WO 92/06200	04/16/1992	WIPO	_____	_____	Yes No
r.r.	AM1	WO 92/06188	04/16/1992	WIPO	_____	_____	Yes No
r.r.	AN1	WO 96/10640	04/11/1996	WIPO	_____	_____	Yes No
r.r.	AO1	WO 97/24455	07/10/1997	WIPO	_____	_____	Yes No
r.r.	AP1	EP 0 791 650 A1	08/27/1997	Europe	_____	_____	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

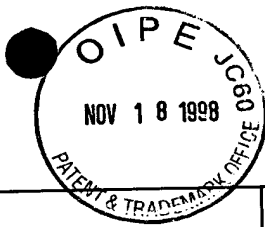
r.r.	AR	1	Aatinski, J.T., et al., "A Coupled One-Step Reverse Transcription PCR Procedure For Generation of Full-Length Open Reading Frames," <i>BioTechniques</i> 16:282-288 (1994).
r.r.	AS	1	Abbotts, J., et al., "Mechanism of HIV-1 Reverse Transcriptase," <i>J. Biol. Chem.</i> 268:10312-10323 (May 1993).
r.r.	AT	1	Alexander, F., et al., "Proteolytic Processing of Avian Sarcoma and Leukosis Viruses pol-endo Recombinant Proteins Reveals Another pol Gene Domain," <i>J. Virol.</i> 61:534-542 (February 1987).

EXAMINER r.r. [Signature]	DATE CONSIDERED 4/20/99
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R.R.	AA2	5,618,703	04/08/1997	Gelfand et al.	435	91.2	02/22/1994
R.R.	AB2	5,618,711	04/08/1997	Gelfand et al.	435	194	02/06/1995
R.R.	AC2	5,624,833	04/29/1997	Gelfand et al.	435	194	06/07/1995
R.R.	AD2	5,668,005	09/16/1997	Kotewicz et al.	435	194	03/12/1996
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
R.R.	AR	2	Anderson, D., et al., "Rapid Generation of Recombinant Baculovirus and Expression of Foreign Genes Using the BAC-TO-BAC™ Baculovirus Expression System," <i>FOCUS</i> 17:53-58 (1995).				
R.R.	AS	2	Barnes, W.M., "The fidelity of <i>Taq</i> polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35 (1992).				
R.R.	AT	2	Barr, P.J., et al., "Expression of Active Human Immunodeficiency Virus Reverse Transcriptase in <i>Saccharomyces cerevisiae</i> ," <i>BioTechnology</i> 5:486-489 (May 1987).				
EXAMINER R. H. Bishop					DATE CONSIDERED 4/20/99		
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	AO						Yes No
	AP						Yes No

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R.R.	AR	3	Berger, S.L., et al., "Reverse Transcriptase and Its Associated Ribonuclease H: Interplay Two Enzyme Activities Controls the Yield of Single-Stranded Complementary Deoxyribonucleic Acid," <i>Biochemistry</i> 22:2365-2372 (1983).
R.R.	AS	3	Chattopadhyay, D., et al., "Purification and Characterization of Heterodimeric Human Immunodeficiency Virus Type 1 (HIV-1) Reverse Transcriptase Produced by <i>in Vitro</i> Processing of p66 with Recombinant HIV-1 Protease," <i>J. Biol. Chem.</i> 267:14227-14232 (July 1992).
R.R.	AT	3	Chernov, A.P., et al., "Recombinant reverse transcriptase of Rous sarcoma virus: characterization of DNA polymerase and RNAase H activities," <i>Biomed. Sci.</i> 2:49-53 (1991).

EXAMINER

R. H. Fisher

DATE CONSIDERED

4/29/99

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
re. re.	AR	4	Freeman, W.M., et al., "Use of Elevated Reverse Transcription Reaction Temperatures in RT-PCR," <i>BioTechniques</i> 20:782-783 (May 1996).
re. re.	AS	4	Flaman, J.-M., et al., "A rapid PCR fidelity assay," <i>Nucl. Acids Res.</i> 22:3259-3260 (August 1994).
re. re.	AT	4	Gerard, G.F., et al., "Poly(2'-O-methylcytidylate) Oligodeoxyguanylate as a Template for the Ribonucleic Acid Directed Deoxyribonucleic Acid Polymerase in Ribonucleic Acid Tumor Virus Particles and a Specific Probe for the Ribonucleic Acid Directed Enzyme in Transformed Murine Cells," <i>Biochemistry</i> 13:1632-1641 (April 1974).

EXAMINER <u>re. re. vishy</u>	DATE CONSIDERED 4/20/99
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re. re.	AR	5	Gerard, G.F., et al., "cDNA Synthesis by Cloned Moloney Murine Leukemia Virus Reverse Transcriptase Lacking RNase H Activity," <i>FOCUS</i> 11:66-69 (1989).
re. re.	AS	5	Gerard, G.F., et al., "cDNA Synthesis by Moloney Murine Leukemia Virus RNase H-Minus Reverse Transcriptase Possessing Full DNA Polymerase Activity," <i>FOCUS</i> 14:91-93 (1992).
re. re.	AT	5	Grandgenett, D.P., et al., "A Single Subunit from Avian Myeloblastosis Virus with Both RNA-Directed DNA Polymerase and Ribonuclease H Activity," <i>Proc. Natl. Acad. Sci. USA</i> 70:230-234 (January 1973).

EXAMINER

re. re. [signature]

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<i>re-re</i>	AR	<u>6</u>	Grandgenett, D.P., et al., "Large-Scale Purification of Ribonucleic Acid Tumor Viruses by Use of Continuous-Flow Density Gradient Centrifugation," <i>Appl. Microbiol.</i> 26:452-454 (September 1973).
<i>re-re</i>	AS	<u>6</u>	Gubler, U., and Hoffman, B.J., "A simple and very efficient method for generating cDNA libraries," <i>Gene</i> 25:263-269 (November 1983).
<i>re-re</i>	AT	<u>6</u>	Hizi, A., and Joklik, W.K., et al., "RNA-dependent DNA Polymerase of Avian Sarcoma Virus B77," <i>J. Biol. Chem.</i> 252:2281-2289 (April 1977).

EXAMINER

R. Ranshaw

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r.e.	AR	Z	Hostomsky, Z., et al., "Reverse Transcriptase of Human Immunodeficiency Virus Type 1: Functionality of Subunits of the Heterodimer in DNA Synthesis," J. Virol. 66:3179-3182 (May 1992).
r.e.	AS	Z	Houts, G.E., et al., "Reverse Transcriptase from Avian Myeloblastosis Virus," J. Virol. 29:517-522 (February 1979).
r.e.	AT	Z	Huber, H.E., et al., "Human Immunodeficiency Virus 1 Reverse Transcriptase," J. Biol. Chem. 264:4669-4678 (March 1989).

EXAMINER

R. Hinkley

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R.R.	AR	8	Kawa, S., et al., "Expression and Purification of the HIV-1 Reverse Transcriptase Using the Baculovirus Expression Vector System," <i>Prot. Exp. Purif.</i> 4:298-303 (August 1993).
R.M.	AS	8	Knapp, B., et al., "In vitro translation of <i>Plasmodium falciparum</i> aldolase is not initiated at an unusual site," <i>EMBO J.</i> 10:3095-3097 (October 1991).
R.R.	AT	8	Kokko, H.I., et al., "Single-Step Immunocapture RT-PCR in the Detection of Raspberry Bushy Dwarf Virus," <i>BioTechniques</i> 20:842-846 (May 1996).

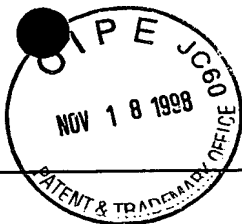
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R. Ronsky

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r.e.	AR	2	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16:265-277 (1988).
r.e.	AS	2	Krug, M.S., et al., "First-Strand cDNA Synthesis Primed with Oligo(dT)," <i>Meth. Enzymol.</i> 152:316-325 (1987).
r.e.	AT	2	Lawyer, F.C., et al., "High-level Expression, Purification, and Enzymatic Characterization of Full-length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287 (May 1993).

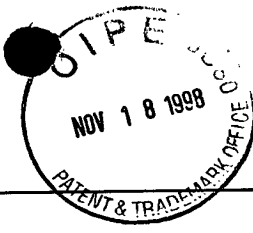
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R. Ranshi

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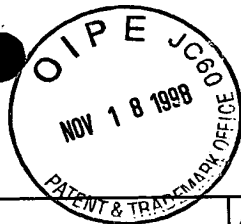
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

r.e.	AR	10	Lee, E.H., et al., "A Highly Sensitive Method For One-Step Amplification of RNA by Polymerase Chain Reaction," <i>FOCUS</i> 19:39-42 (Spring 1997).
r.e.	AS	10	Le Grice, S.F.J., and Grüniger-Leitch, F., "Rapid purification of homodimer and heterodimer HIV-1 Reverse Transcriptase by metal chelate affinity chromatography," <i>Eur. J. Biochem.</i> 187:307-314 (January 1990).
r.e.	AT	10	Le Grice, S.F.J., "Human Immunodeficiency Virus Reverse Transcriptase," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp.163-191 (1993)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

r.e.	AR	11	Lowe, D.M., et al., "HIV-1 Reverse Transcriptase: Crystallization and Analysis of Domain Structure by Limited Proteolysis," <i>Biochemistry</i> 27:8884-8889 (December 1988).
r.e.	AS	11	Mallet, F., et al., "Continuous RT-PCR Using AMV-RT and <i>Taq</i> DNA Polymerase: Characterization and Comparison to Uncoupled Procedures," <i>BioTechniques</i> 18:678-687 (April 1995).
r.e.	AT	11	Messer, L.I., et al., "Functional Analysis of Reverse Transcription by a Frameshift <i>pol</i> Mutant of Murine Leukemia Virus," <i>Virology</i> 146:146-152 (1985).

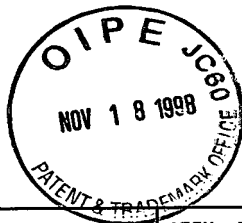
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R.R.	AR	12	Mizrahi, V., et al., "Recombinant HIV-1 Reverse Transcriptase: Purification, Primary Structure, and Polymerase/Ribonuclease H activities," <i>Arch. Biochem. Biophys.</i> 273:347-358 (September 1989).
R.R.	AS	12	Müller, B., et al., "Co-expression of the Subunits of the Heterodimer of HIV-1 Reverse Transcriptase in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 264:13975-13978 (August 1989).
R.R.	AT	12	Myers, T.W., and Gelfand, D.H., "Reverse Transcription and DNA Amplification by a <i>Thermus thermophilus</i> DNA Polymerase," <i>Biochemistry</i> 30:7661-7666 (August 1991).

EXAMINER	Relationship	DATE CONSIDERED 4/2/99
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

re. re.	AR	13	Prasad, V.R., et al., "Genetic Analysis of Retroviral Reverse Transcriptase Structure and Function," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 135-162 (1993).
re. re.	AS	13	Saiki, R.K., et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491 (January 1988).
re. re.	AT	13	Sambrook, J., et al., "Protocol for the Synthesis of the First Strand of cDNA," in <i>Molecular Cloning: A Laboratory Manual</i> , 2 nd Edition, Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 8.60-8.63 (1989).

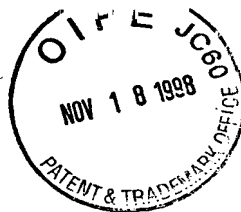
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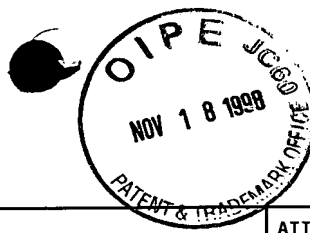
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

re. re.	AR	<u>14</u>	Schwartz, D.E., et al., "Nucleotide Sequence of Rous Sarcoma Virus," <i>Cell</i> 32:853-869 (March 1983).
re. re.	AS	<u>14</u>	Sellner, L.N., et al., "Reverse transcriptase inhibits Taq polymerase activity," <i>Nucl. Acids Res.</i> 20:1487-1490 (1992).
re. re.	AT	<u>14</u>	Sitaraman, K., et al., "RT-PCR of Difficult Templates Using the SUPERScript ONE-STEP™ RT-PCR System," <i>FOCUS</i> 19:43-44 (Spring 1997).

EXAMINER <i>relationships</i>	DATE CONSIDERED <i>4/20/99</i>
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re.re.	AR	15	Skalka, A.M., et al., "Endonuclease Activity Associated with Reverse Transcriptase of Avian Sarcoma-Leukosis Viruses," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 193-204 (1993).
re.re.	AS	15	Soltis, D.A., and Skalka, A.M., "The α and β chains of avian retrovirus reverse transcriptase independently expressed in <i>Escherichia coli</i> : Characterization of enzymatic activities," <i>Proc. Natl. Acad. Sci. USA</i> 85:3372-3376 (May 1988).
re.n.	AT	15	Stahlhut, M., et al., "Purification and Characterization of HIV-1 Reverse Transcriptase Having a 1:1 Ratio of p66 and p51 Subunits," <i>Prot. Exp. Purif.</i> 5:614-621 (December 1994).

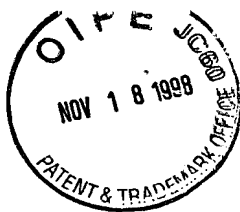
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r.r.	AR	16	Strauss, E.M., et al., "Efficient Production of Mammalian RNA Tumor Viruses in Serum-Free Culture Medium Allows Rapid RNA Subunit Purification," <i>J. Virol. Meth.</i> 1:213-221 (1980)
r.r.	AS	16	Wang, R.-F., et al., "A Simplified, Single Tube, Single Buffer System for RNA-PCR," <i>BioTechniques</i> 12:702, 704 (May 1992).
r.r.	AT	16	Weaver, D.T., and DePamphilis, M.L., "Specific Sequences in Native DNA that Arrest Synthesis by DNA Polymerase α ," <i>J. Biol. Chem.</i> 257:2075-2086 (February 1982).

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